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### 1 [Protecting representation with effect encapsulation](#)



Yi Lu, John Potter

January 2006 POPL '06: Conference record of the 33rd ACM SIGPLAN-SIGACT  
symposium on Principles of programming languages

**Publisher:** ACM

Full text available: Pdf (312.88  
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Representation exposure is a well-known problem in the object-oriented realm. Object encapsulation mechanisms have established a tradition for solving this problem based on a principle of reference containment. This paper proposes a novel type system ...

**Keyw ords:** effect systems, object encapsulation, ownership types, representation exposure, types

## 2 [Protecting representation with effect encapsulation](#)



Yi Lu, John Potter

January 2006 ACM SIGPLAN Notices, Volume 41 Issue 1

**Publisher:** ACM

Full text available: [Pdf](#) (312.88 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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**Keywords:** effect systems, object encapsulation, ownership types, representation exposure, types

## 3 [Ownership confinement ensures representation independence for object-oriented programs](#)



Anindya Banerjee, David A. Naumann

November 2005 Journal of the ACM (JACM), Volume 52 Issue 6

**Publisher:** ACM

Full text available: [Pdf](#) (664.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 94, Citation Count: 6

Representation independence formally characterizes the encapsulation provided by language constructs for data abstraction and justifies reasoning by simulation. Representation independence has been shown for a variety of languages and constructs but ...

**Keywords:** Alias control, confinement, data refinement, relational parametricity, simulation

## 4 [PolyTOIL: A type-safe polymorphic object-oriented language](#)



Kim B. Bruce, Angela Schuett, Robert van Gent, Adrian Fiech

March 2003 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 2

**Publisher:** ACM

Full text available: [Pdf](#) (820.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 48, Citation Count: 5

PolyTOIL is a new statically typed polymorphic object-oriented programming language that is provably typesafe. By separating the definitions of subtyping and inheritance, providing a name for the type of self, and carefully defining the type-checking ...

**Keywords:** Matching, hash type

## 5 A machine-checked model for a Java-like language, virtual machine, and compiler



Gerwin Klein, Tobias Nipkow

July ACM Transactions on Programming Languages and Systems (TOPLAS),  
2006 Volume 28 Issue 4

**Publisher:** ACM

Full text available: Pdf (2.68 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 18, Downloads (12 Months): 145, Citation Count: 10

We introduce Jinja, a Java-like programming language with a formal semantics designed to exhibit core features of the Java language architecture. Jinja is a compromise between the realism of the language and the tractability and clarity of its formal ...

**Keywords:** Java, operational semantics, theorem proving

## 6 A history of Haskell: being lazy with class



Paul Hudak, John Hughes, Simon Peyton Jones, Philip Wadler

June HOPL III: Proceedings of the third ACM SIGPLAN conference on History of  
2007 programming languages

**Publisher:** ACM

Full text available: Pdf (1.15 MB)

Additional Information: [full citation](#), [appendices and supplements](#),  
[abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 75, Downloads (12 Months): 1475, Citation Count: 0

This paper describes the history of Haskell, including its genesis and principles, technical contributions, implementations and tools, and applications and impact.

## 7 [Communications of the ACM: Volume 51 Issue 8](#)



August issue Volume 51 Issue 8  
2008

**Publisher:** ACM

Full text available: [Digital Edition](#) , [Pdf](#) (6.85 MB)

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 1545, Downloads (12 Months): 1545, Citation Count: 0

## 8 [Component nextgen: a sound and expressive component framework for java](#)



James Sasitorn, Robert Cartwright  
October 2007 ACM SIGPLAN Notices, Volume 42 Issue 10

**Publisher:** ACM

Full text available: [Pdf](#) (367.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 149, Citation Count: 0

Developing a general component system for a statically typed, object-oriented language is a challenging design problem for two reasons. First, mutually recursive references across components are common in object-oriented programs-an issue that has proven ...

**Keyw ord s:** components, custom class loader, first-class generics, java implementation, modules, signatures

## 9 [Component nextgen: a sound and expressive component framework for java](#)



James Sasitorn, Robert Cartwright  
October 2007 OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on Object oriented programming systems and applications

**Publisher:** ACM

Full text available: [Pdf](#) (367.92 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 19, Downloads (12 Months): 149, Citation Count: 0

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